In the Claims:

Applicants hereby submit amended claims, including a complete listing of all claims in the application with the status of each claim in parentheses.

1.- 2. (canceled)

3. (canceled)

4. (canceled)

5. (canceled)

6. (canceled)

7. (previously presented) A method for formation of an ion beam that provides carbon deposition over a substrate, the ion beam produced by inductively ionizing an acetylene plasma within a plasma volume and capacitatively coupling the plasma so as to form a stream of ions from within the plasma volume, the method comprising:

moving a magnetic field through the plasma volume to promote even resonant inductive ionization and homogenize the ion beam which deposits carbon over the substrate, wherein the magnetic field rotates with a frequency of less than 10,000 Hz.

8. (previously presented) A method as claimed in claim 7, wherein moving the magnetic field comprises selectively energizing magnetic coils disposed about the plasma volume.

9. (previously presented) A method as claimed in claim 7, wherein the magnetic field rotates through the plasma volume with a frequency which is much less than the frequency of an alternating induction potential within the plasma volume.

10. (previously presented) A method as claimed in claim 7, wherein the magnetic field is transverse and rotates about an axis which is substantially normal to a capacitatively coupled extraction grid within the plasma volume.

11. (previously presented) A method as claimed in claim 7, wherein the magnetic field rotates with a frequency of less than 100 Hz.

12.-15. (canceled).

16. (canceled)

17. (canceled)

18. (previously presented) A method as in claim 7, wherein the carbon is deposited on the substrate at a rate in a range from 20 Å per second to 100 Å per second.

19. (canceled)

20. (canceled)

21. (previously presented) A method as in claim 7, wherein the substrate includes a magnetic recording medium.

22. (previously presented) A method as in claim 7, wherein the substrate includes a semiconductor material.

23. (canceled)

24. (canceled)

25. (canceled)

26. (canceled)

27. (canceled)

28. (canceled)

29. (canceled)

30. (canceled)

31. (canceled)

32. (canceled)

33. (canceled)

34. (canceled)

35. (canceled)

36. (canceled)

37. (canceled)

38. (canceled)

39. (canceled)

40. (canceled)